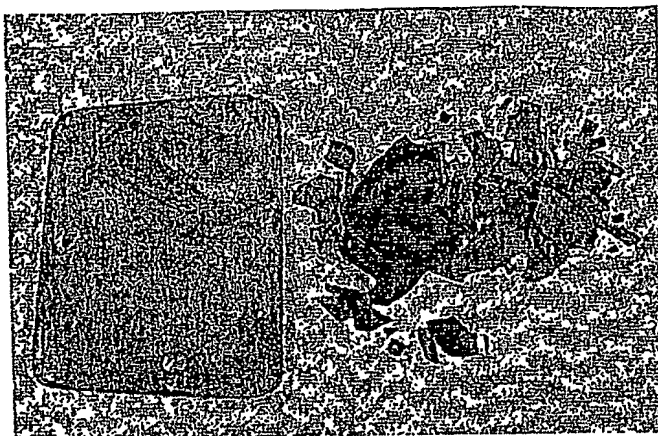
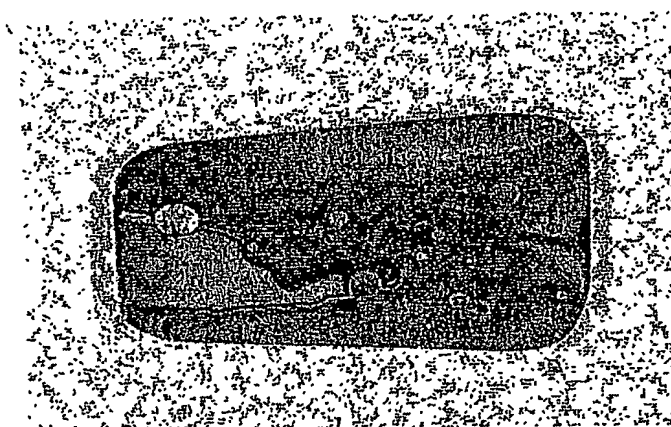


Figure 1. Weight change during the oxidation of steel and copper in 40%O<sub>2</sub> /Ar at 500 °C.



(a)



(b)

Figure 2. Copper (a) and steel (b) after oxidation in air at 700 °C.

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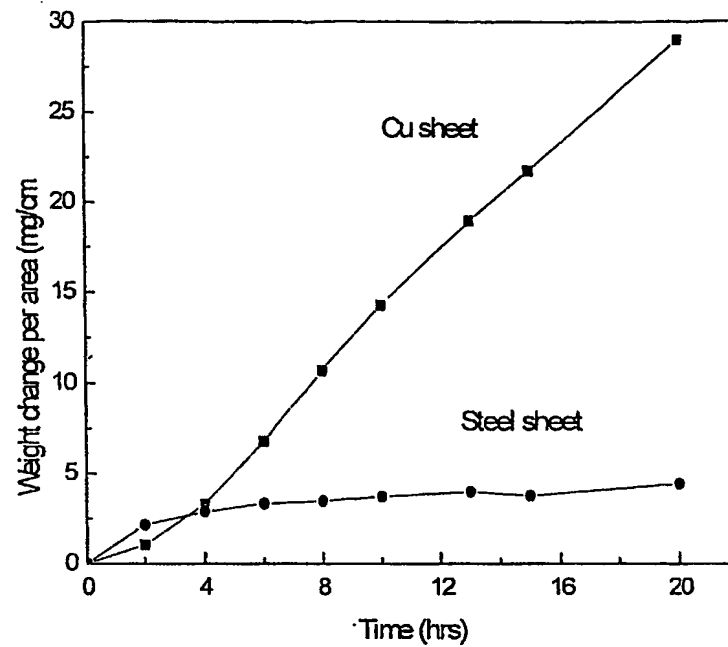


Figure 3. Weight change of copper and steel during oxidation in air at 500 °C under thermal cycle.

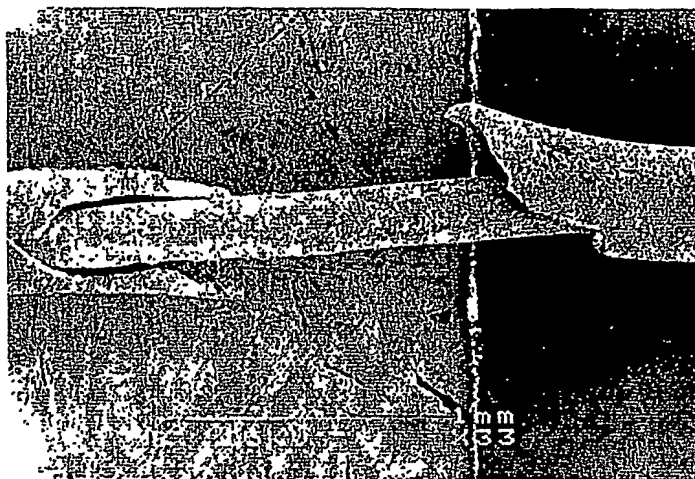
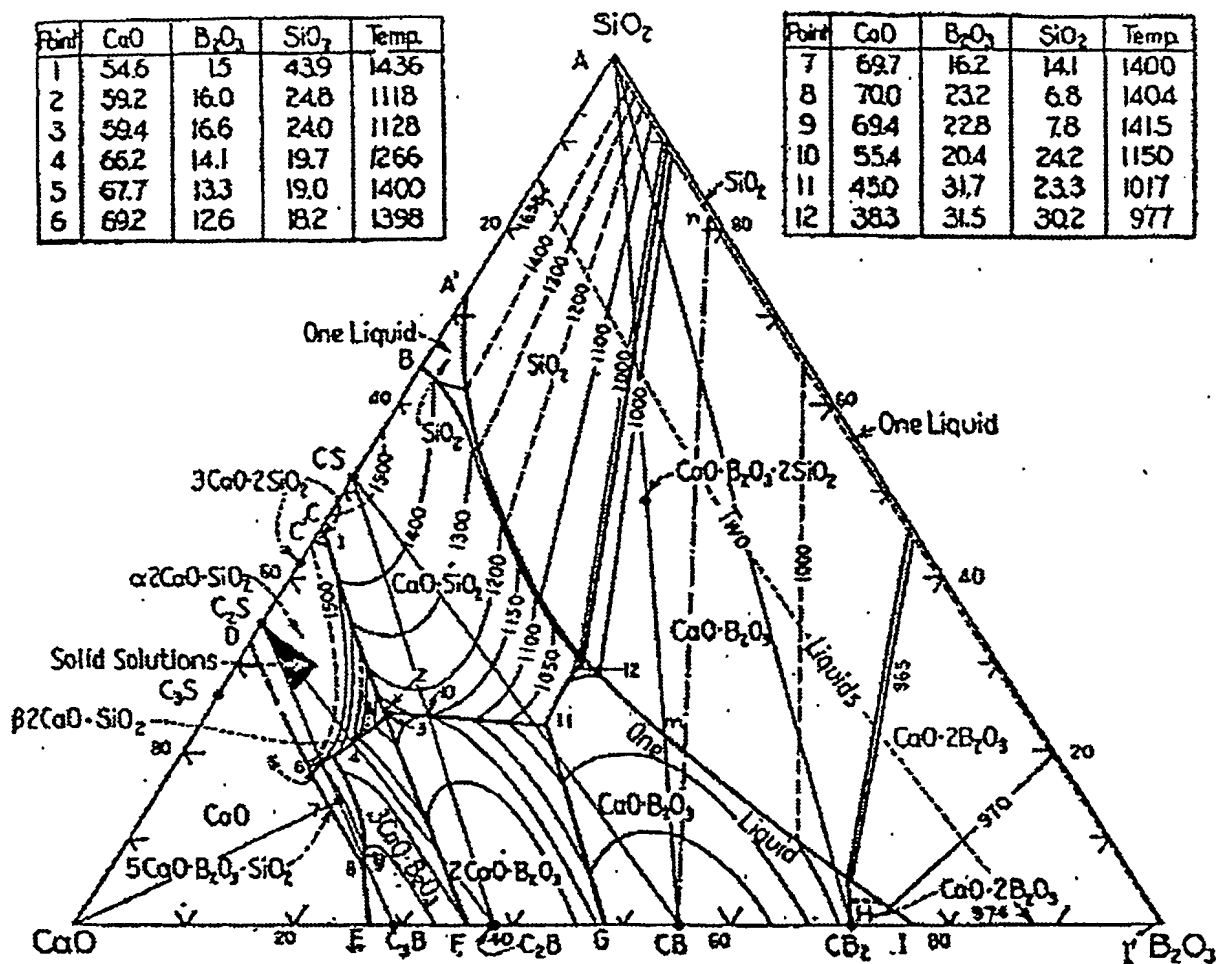
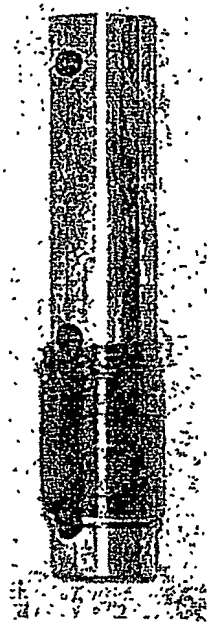


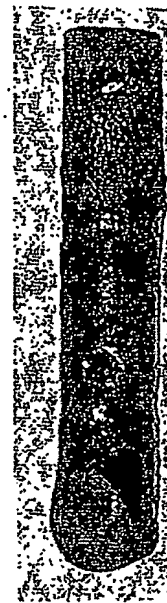
Figure 4. Copper wire after oxidation in air at 700 °C.

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Figure 5. CaO-SiO<sub>2</sub>-B<sub>2</sub>O<sub>3</sub> phase diagram.



(a)



(b)

Figure 6. (a) steel rod wound copper wire and (b) steel rod after dissolution of copper oxide.

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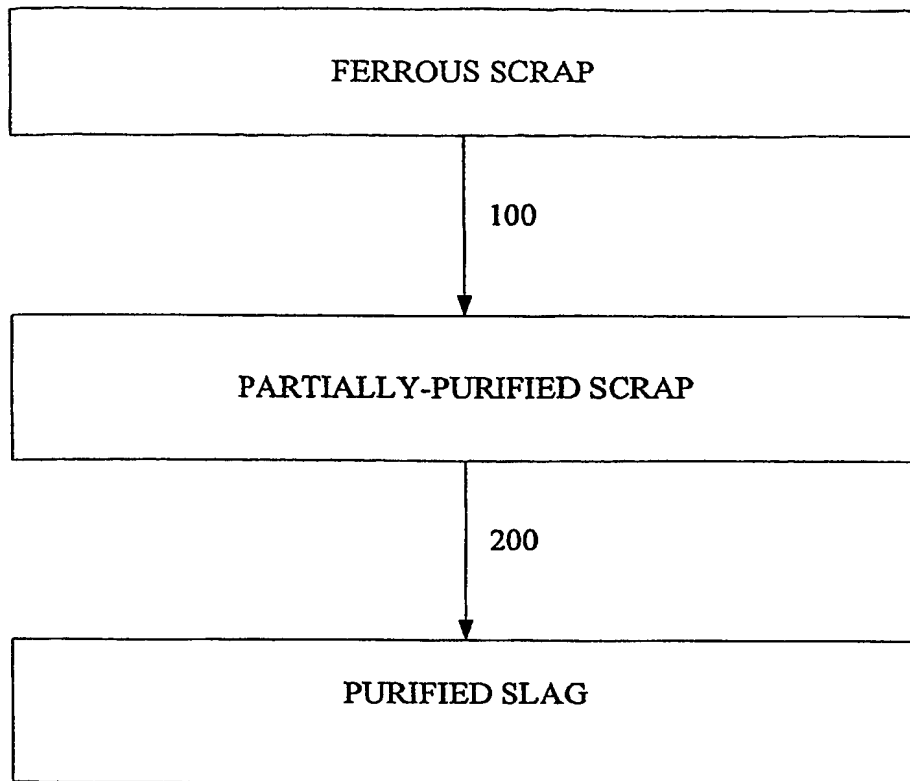


FIGURE 7

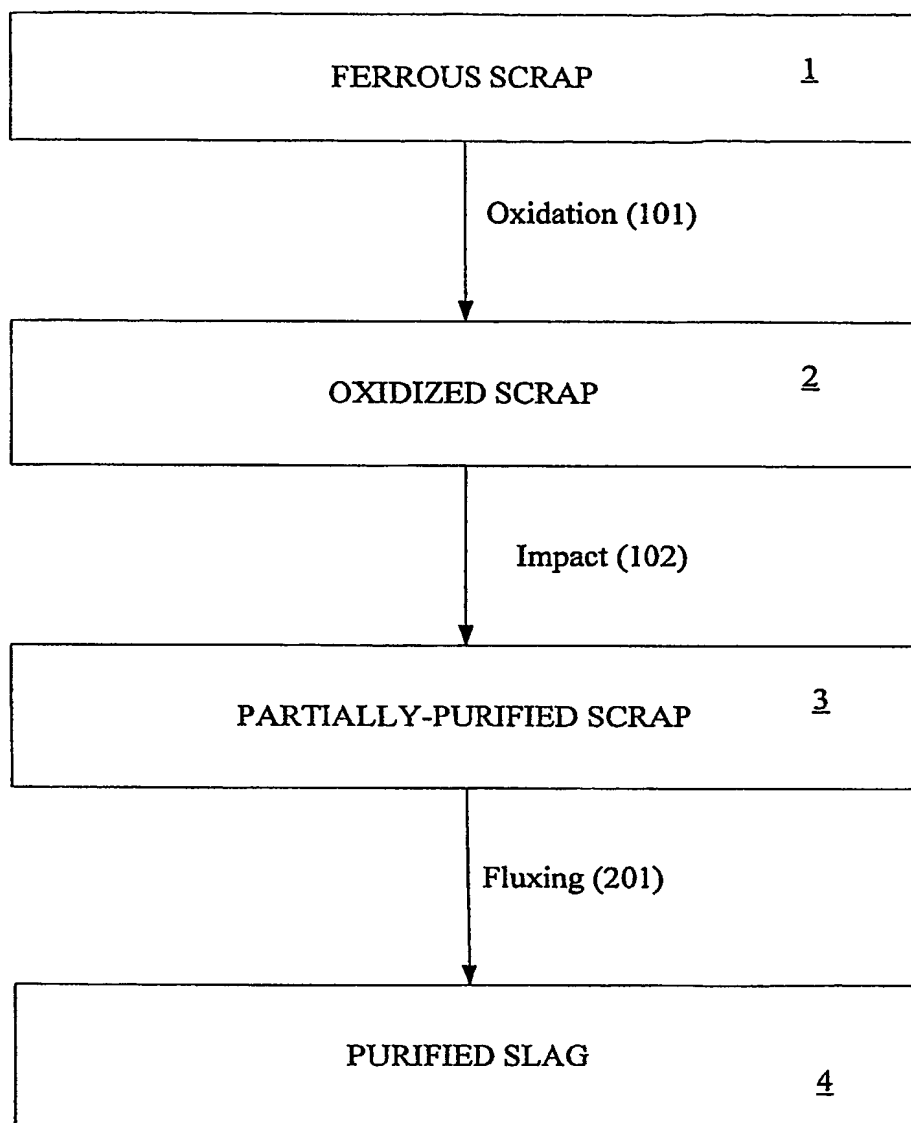


FIGURE 8